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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Confirmation No. 6918  
Mitsuaki OSHIMA : Attorney Docket No. 2003\_1578  
Serial No. 10/695,780 : Group Art Unit 2631  
Filed October 30, 2003 :  
COMMUNICATION SYSTEM :

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 20-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicant requests consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- each U.S. Patent and U.S. Patent application publication;
- each reference previously cited in the international application  
PCT/\_\_\_\_\_ ; and/or
- each reference previously cited in prior parent application Serial No.  
\_\_\_\_\_.

1a.  This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

- 1b.  This Information Disclosure Statement is submitted after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:
- (1)  the certification of paragraph 2 below is provided, **or**
  - (2)  the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c.  This Information Disclosure Statement is submitted:  
after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:  
**the certification of paragraph 2 below is provided, and**  
**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified
  - a.  that items AJ-AN of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
  - b.  that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
3.  Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a.  a full or partial English language translation submitted herewith,
- b.  two foreign patent office actions submitted herewith,
- c.  the concise explanation contained in the specification of the present application at page,
- d.  the concise explanation set forth in the attached English language abstract,
- e.  the concise explanation set forth below or on a separate sheet attached to the reference:

**JP 4-322592 corresponds to US 5,105,442 previously filed in an Information Disclosure Statement on October 30, 2003 and EP 0485108 previously filed in an Information Disclosure Statement on October 30, 2003**

**JP 62-502932 corresponds to WO 86/07223 previously filed in an Information Disclosure Statement on October 30, 2003**

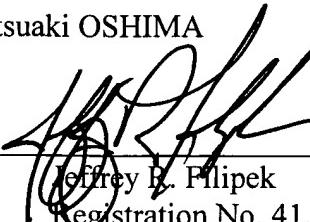
- 5.  Two foreign patent office actions citing one or more of the references is enclosed.
- 6.  Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA

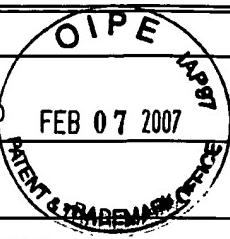
By



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February 7, 2007

## INFORMATION DISCLOSURE STATEMENT



FORM PTO 1449 ( <i>modified</i> )  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO. 2003_1578	SERIAL NO. 10/695,780
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			APPLICANT Mitsuaki OSHIMA	
Date Submitted to PTO: February 7, 2007			FILING DATE October 30, 2003	GROUP 2631

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,267,592	5-12-81	Craiglow			
	AB	4,601,045	7-15-86	Lubarsky			
	AC	4,912,706	3-27-90	Eisenberg et al.			
	AD	4,914,655	4-3-90	Johannes et al.			
	AE	5,018,198	5-21-91	Takahashi			
	AF	4,003,002	1-11-77	Snijders et al.			
	AG	4,053,713	10-11-77	Nitadori			
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	3-13145	1-22-91	Japan			abstract
	AK	4-322592	11-12-92	Japan			abstract
	AL	63-253738	10-20-88	Japan			abstract
	AM	62-502932	11-19-87	Japan			abstract
	AN	58-107740	6-27-83	Japan			abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	
	AP	
	AQ	

EXAMINER

DATE CONSIDERED